

ABSTRACT

5 An electrical energy storage device for storing
electrical energy and supplying the electrical energy to a
driving motor at different power levels is disclosed. The
electrical storage device has an energy battery connected
to a power battery. The energy battery has a higher energy
10 density than the power battery. However, the power battery
can provide electrical power to the electrical motor at
different power rates, thereby ensuring that the motor has
sufficient power and current when needed. The power
battery can be recharged by the energy storage battery. In
15 this way, the power battery temporarily stores electrical
energy received from the energy battery and both batteries
can provide electrical energy at the different power rates
as required by the motor. The energy storage device can be
releasably connected to an external power source in order
20 to recharge both batteries. Both batteries can be
recharged independently to optimize the recharging and
lifetime characteristics of the batteries.

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